



Patent
TH2467 (US)

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Signature: *Robert F. Ruck*

Date: Nov. 14, 2005

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of)	
)	
W. E. EVANS ET AL)	
)	
Serial No. 10/816,480)	Group Art Unit: 1625
)	
Filed April 1, 2004)	Examiner: Raymond K. Covington
)	
PROCESS FOR THE PRODUCTION OF)	November 14, 2005
AN OLEFIN OXIDE)	
)	

COMMISSIONER FOR PATENTS
P. O. Box 1450
Alexandria, VA 22313-1450

11/18/2005 CNGUYEN 00000107 191800 10816480
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INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR 1.56 AND 1.97

It is respectfully requested that the documents listed on the attached Form PTO-1449 be considered by the Patent and Trademark Office in the above-entitled application and made of record therein. Full text copies of the relevant documents, other than U.S. patent documents, are enclosed. EP-A-933130 and U.S. Patent 6,087,299 both claim priority to German Application 19803890, filed on January 31, 1998. Since U.S. Patent 6,087,299 is in the English language, it is enclosed as well.

Enclosed is a copy of a letter to the European Patent Office, dated July 11, 2000. Applicants wish to draw the Examiner's attention to the "Report of Additional Experiments", enclosed in the letter.

The Examiner is also respectfully requested to take into account that the invention described in the enclosed paper marked "WO04/002971", but not the invention claimed in Application No. 10/816,480, was used before June 28, 2001 in commercial

operation in the United States without public disclosure. No claims claiming the invention described in the paper marked "WO04/002971" will be pursued in the United States.

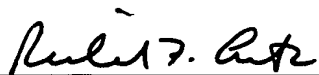
Applicant is aware of pending patent applications Serial Nos. 10/606,440 and 10/607,346, which cover related, but different inventions. Applicant is also aware of Office Communications, dated February 25, 2005, and August 18, 2005, rejecting the claims in patent application Serial No. 10/606,440.

The Examiner is requested to indicate consideration of this art on the attached PTO-1449 (Modified) by initialing next to each item submitted by the Applicant.

The Examiner is authorized to charge the \$180.00 fee associated with the filing of this Information Disclosure Statement to Shell Oil Company, Deposit Account No. 19-1800.

Respectfully submitted,

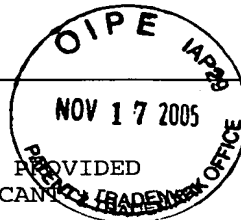
W. E. EVANS ET AL

By 
Their Attorney, Richard F. Lemuth
Registration No. 30,081
(713) 241-3716

P. O. Box 2463
Houston, Texas 77252-2463

Enclosure: WO04/002971
PTO-1449 Form (Modified)

FORM PTO-1449 (Modified)

ATTY. DOCKET NO.
TH-2467 (US)APPLICATION NUMBER
10/816,480LIST OF INFORMATION PROVIDED
BY APPLICANT

(Use several sheets if necessary)

APPLICANT
W. E. EVANS ET ALFILING DATE
4/1/04

GROUP ART UNIT

REFERENCE DESIGNATION		U.S. PATENT DOCUMENTS					
Examiner Initial		Document No.	Date	Patentee	Class	Subclass	Filing Date if Appropriate
	AA	2,219,575	6/39	McNamee et al	260	348	
	AB	5,380,697	1/95	Matusz et al	502	348	
	AC	4,874,879	10/89	Lauritzen et al	549	536	
	AD	2002/0010094	1/2002	Lockemeyer	502	439	
	AE	4,389,338	6/83	Mitsuhata et al	252	463	
	AF	4,845,296	7/89	Ahmed et al	564	477	
	AG	4,822,900	4/89	Hayden	549	534	
	AH	4,761,394	8/88	Lauritzen	502	348	
	AI	5,100,859	3/92	Gerdes et al	502	439	
	AJ	6,368,998	4/02	Lockemeyer	502	347	
	AK	5,102,848	4/92	Soo et al	502	218	

FOREIGN PATENT DOCUMENTS							
		Document No.	Date	Country	Class	Subclass	Translation Yes No
	AL	96/04989 A1	2/98	WO	B01J	23/50	
	AM	00/15332	3/00	WO	B01J	23/04	
	AN	00/15333	3/00	WO	B01J	23/50	

OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
AR	Kirk-Othmer's Encyclopedia Of Chem. Tech., 3 rd Ed., Vol. 9 (1980), pgs. 445-447.
AS	Kirk-Othmer's Encyclopedia Of Chem. Tech., 2nd Ed., Vol. 4 (1964), page 566.
AT	Brunauer, Emmet & Teller, J. of Amer. Chem. Soc., Vol. 60 (1938); pgs. 309-316.

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

- The attached cited information should not be construed as an admission that any of the above items are prior art to the subject invention.
- This is not a representation that a search has been made.

FORM PTO-1449 (Modified)	ATTY. DOCKET NO. TH-2467 (US)	APPLICATION NUMBER 10/816,480
LIST OF INFORMATION PROVIDED BY APPLICANT (Use several sheets if necessary)	APPLICANT W. E. EVANS ET AL	
	FILING DATE 4/1/04	GROUP ART UNIT

REFERENCE DESIGNATION U.S. PATENT DOCUMENTS							
Examiner Initial		Document No.	Date	Patentee	Class	Subclass	Filing Date if Appropriate
	BA	5,646,087	7/97	Rizkalla et al	502	347	
	BB	5,739,075	4/98	Matusz	502	302	
	BC	5,504,052	4/96	Rizkalla et al	502	347	
	BD	5,444,034	8/95	Rizkalla	502	347	
	BE	5,770,746	6/98	Cocker et al	549	534	
	BF	6,087,299	7/00	Grub et al	502	347	
	BG	6,372,925	4/02	Evans et al	549	536	
	BH	5,155,242	10/92	Shankar et al	549	534	
	BI	4,766,105	8/88	Lauritzen	502	216	
	BJ	5,801,259	9/98	Kowaleski			
	BK	5,395,812	3/95	Nagase et al	502	238	

FOREIGN PATENT DOCUMENTS							
		Document No.	Date	Country	Class	Subclass	Translation Yes No
	BL	00/15334	3/00	WO	B01J	23/50	
	BM	00/15335	3/00	WO	B01J	23/50	
	BN	933,130 A2	8/99	EP (Abstract)	B01J	23/66	

OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
BR	Beilstein Institute for Organic Chemistry, Frankfurt-Main, DE, XP002296657, J. Am. Chem. Soc., Vol. 56 (1934); pgs. 1870-1872.
BS	International Search Report, dated January 18, 2005, for PCT/US2004/010457 (TH2467 PCT).
BT	International Preliminary Examination Report, dated August 18, 2005, for PCT/US2004/010457 (TH2467 PCT).

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REFERENCE DESIGNATION U.S. PATENT DOCUMENTS							
Examiner Initial		Document No.	Date	Patentee	Class	Subclass	Filing Date if Appropriate
.	CA	4,007,135	2/77	Hayden et al	252	467	
	CB	5,854,167	12/98	Rizkalla et al	502	216	
	CC	6,762,311	7/04	Rizkalla et al	549	534	
	CD	5,780,656	7/98	Rizkalla et al	549	534	
	CE	5,736,483	4/98	Rizkalla	502	347	
	CF	5,407,888	4/95	Herzog et al	502	317	
	CG	6,656,874	12/03	Lockemeyer	502	347	
	CH	6,579,825	6/03	Lockemeyer	502	347	
	CI	6,511,938	1/03	Liu et al	502	347	
	CJ	6,750,173	6/04	Rizkalla et al	502	348	
	CK	5,801,259	9/98	Kowaleski	549	536	

FOREIGN PATENT DOCUMENTS							
		Document No.	Date	Country	Class	Subclass	Translation Yes No
	CL	266,015 A1	5/88	EP	B01J	23/68	
	CM	1,489,335	10/77	GB	B01J	23/66	
	CN	2004/002972 A2	1/2004	WO	C07D	301/10	

OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
CR	International Search Report, dated June 11, 2004, for PCT/US03/19827 (TH1808 PCT).
CS	International Search Report, dated February 20, 2004, for PCT/US03/20095 (TH2202 PCT).
CT	International Search Report, dated October 30, 2003, for PCT/US2003/019828 (TH2305 PCT).

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	DA						
	DB						
	DC						
	DD						
	DE						
	DF						
	DG						
	DH						
	DI						
	DJ						
	DK						

FOREIGN PATENT DOCUMENTS							
		Document No.	Date	Country	Class	Subclass	Translation Yes No
	DL	716,884 A2	6/96	EP	B01J	23/66	
	DM	003642 A2	8/79	EP	C07D	301/10	
	DN	95/05896	3/95	WO	B01J	23/66	

OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
DR	Letter to European Patent Office dated July 11, 2000, relating to European Patent Application No. 95203469.2-2104, Publication No. 716884.
DS	U.S. Patent and Trademark Office Action for Appl. Serial No. 10/606,440 (TH1808) dated February 25, 2005.
DT	U.S. Patent and Trademark Office Action for Appl. Serial No. 10/606,440 (TH1808) dated August 18, 2005.

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	EA						
	EB						
	EC						
	ED						
	EE						
	EF						
	EG						
	EH						
	EI						
	EJ						
	EK						

FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Subclass	Translation Yes No	
	EL	352,849 A1	1/90	EP	C07D	301/10		
	EM	1,170,663	11/69	GB	B01J	11/20		
	EN	326,392 A1	8/89	EP	C07D	301/10		

OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

	ER	International Preliminary Examination Report, dated October 27, 2004, for PCT/US2003/19827 (TH1808 PCT).
	ES	International Preliminary Examination Report, dated October 5, 2004, for PCT/US2003/20095 (TH2202 PCT).
	ET	International Preliminary Examination Report, dated October 29, 2004, for PCT/US2003/19828 (TH2305 PCT).

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.	FA						
	FB						
	FC						
	FD						
	FE						
	FF						
	FG						
	FH						
	FI						
	FJ						
	FK						

FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Subclass	Translation Yes No	
	FL	352,850	1/90	EP	C07D	301/10		
	FM	WO 01/96324	12/01	WO	C07D	301/00		
	FN	567,273 A1	10/93	EP	C07D	301/10		

OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

	FR	Written Opinion, dated July 16, 2004, for PCT/US03/19827 (TH1808 PCT).
	FS	Written Opinion, dated March 16, 2004, for PCT/US03/20095 (TH2202 PCT).
	FT	Written Opinion, dated May 6, 2005, for PCT/US03/19828 (TH2305 PCT).

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	GA						
	GB						
	GC						
	GD						
	GE						
	GF						
	GG						
	GH						
	GI						
	GJ						
	GK						

FOREIGN PATENT DOCUMENTS							
		Document No.	Date	Country	Class	Subclass	Translation Yes No
	GL	1,191,983	5/70	GB	C07D	1/14	
	GM	1,002,575 A2	5/00	EP	B01J	23/04	
	GN						

OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
	GR
	GS
	GT

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